SEQUENCE LISTING

<110> Vivien Chan et al.

<120> NOTCH RECEPTOR LIGANDS AND USES THEREOF

<130> PPO-1602.002 / 200130.498

<140> US 09/641,612
<141> 2000-08-17

<160> 10

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 1752
<212> DNA
<213> Homo sapiens

<400> 1
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ccaggccctg gggccccgcg gtccccctgc agcgcccggc tcccctgccg cctcttcttc     180
agagtctgcc tgaagcctgg gctctcagag gaggccgccg agtccccgtg cgccctgggc     240
gcggcgctga gtgcgcgcgg accggtctac accgagcagc ccggagcgcc cgcgcctgat     300
ctcccactgc ccgacggcct cttgcaggtg cccttccggg acgcctggcc tggcaccttc     360
tctttcatca tcgaaacctg gagagaggag ttaggagacc agattggagg gcccgcctgg     420
agcctgctgg cgcgcgtggc tggcaggcgg cgcttggcag ccggaggccc gtgggcccgg     480
gacattcagc gcgcaggcgc ctgggagctg cgctgctcgt accgcgcgcg ctgcgagccg     540
cctgcggtcg ggaccgcgtg cacgcgcctc tgccgtccgc gcagcgcccc ctcgcggtgc     600
ggtccgggac tgcgcccctg cgcaccgctc gaggacgaat cggtgtgccg agcaggctgc     660
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tctgctacca ccggatgcct tgtccctggg cctgggccct gtgacgggaa cccgtgtgcc     840
aatggaggca gctgtagtga dacacccagg tcctttgaat gcacctgccc gcgtgggttc     900
tacgggctgc ggtgtgaggt gagcggggtg acatgtgcag atggaccctg cttcaacggc     960
ggcttgtgtg tcgggggtgc agaccctgac tctgcctaca tctgccactg cccacctggt    1020
ttccaaggct ccaactgtga gaagagggtg gaccggtgca gcctgcagcc atgccgcaat    1080
ggcggactct gcctggacct gggccacgcc ctgcgctgcc gctgccgcgc cggcttcgcg    1140
ggtcctcgct gcgagcacga cctggacgac tgcgcgggcc gcgcctgcgc taacggcggc    1200
acgtgtgtgg agggcggcgg cgcgcaccgc tgctcctgcg cgctgggctt cggcggccgc    1260
gactgccgcg agcgcgcgga cccgtgcgcc gcgcgcccct gtgctcacgg cggccgctgc    1320
tacgcccact ctctccggcct cgtctgcgct tgcgctcccg gctacatggg agcgcggtgt    1380
gagttcccag tgcaccccga cggcgcaagc gccttgcccg cggccccgcc gggcctcagg    1440
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gtggccggcg ctgcgctctt gctggtccac gtgcgccgcc gtggccactc ccaggatgct    1560
gggtctcgct tgctggctgg daccccggag ccgtcagtcc acgcactccc ggatgcactc    1620
aacaacctaa ggacgcagga gggttccggg gatggtccga gctcgtccgt agattggaat    1680
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cgggaggcct ga                                                       1752
```

<210> 2
<211> 583
<212> PRT
<213> Homo sapiens

<400> 2

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Met Val Ser Pro Arg Met Ser Gly Leu Leu Ser Gln Thr Val Ile Leu
 1               5                   10                  15
Ala Leu Ile Phe Leu Pro Gln Thr Arg Pro Ala Gly Val Phe Glu Leu
             20                  25                  30
Gln Ile His Ser Phe Gly Pro Gly Pro Gly Pro Gly Ala Pro Arg Ser
         35                  40                  45
Pro Cys Ser Ala Arg Leu Pro Cys Arg Leu Phe Phe Arg Val Cys Leu
     50                  55                  60
Lys Pro Gly Leu Ser Glu Glu Ala Ala Glu Ser Pro Cys Ala Leu Gly
65                  70                  75                  80
Ala Ala Leu Ser Ala Arg Gly Pro Val Tyr Thr Glu Gln Pro Gly Ala
                 85                  90                  95
Pro Ala Pro Asp Leu Pro Leu Pro Asp Gly Leu Leu Gln Val Pro Phe
             100                 105                 110
Arg Asp Ala Trp Pro Gly Thr Phe Ser Phe Ile Ile Glu Thr Trp Arg
         115                 120                 125
Glu Glu Leu Gly Asp Gln Ile Gly Gly Pro Ala Trp Ser Leu Leu Ala
     130                 135                 140
Arg Val Ala Gly Arg Arg Arg Leu Ala Ala Gly Gly Pro Trp Ala Arg
145                 150                 155                 160
Asp Ile Gln Arg Ala Gly Ala Trp Glu Leu Arg Cys Ser Tyr Arg Ala
                 165                 170                 175
Arg Cys Glu Pro Pro Ala Val Gly Thr Ala Cys Thr Arg Leu Cys Arg
             180                 185                 190
Pro Arg Ser Ala Pro Ser Arg Cys Gly Pro Gly Leu Arg Pro Cys Ala
         195                 200                 205
Pro Leu Glu Asp Glu Ser Val Cys Arg Ala Gly Cys Ser Pro Glu His
     210                 215                 220
Gly Phe Cys Glu Gln Pro Gly Glu Cys Arg Cys Leu Glu Gly Trp Thr
225                 230                 235                 240
Gly Pro Leu Cys Thr Val Pro Val Ser Thr Ser Ser Cys Leu Ser Pro
                 245                 250                 255
Arg Gly Pro Ser Ser Ala Thr Thr Gly Cys Leu Val Pro Gly Pro Gly
             260                 265                 270
Pro Cys Asp Gly Asn Pro Cys Ala Asn Gly Gly Ser Cys Ser Glu Thr
         275                 280                 285
Pro Arg Ser Phe Glu Cys Thr Cys Pro Arg Gly Phe Tyr Gly Leu Arg
     290                 295                 300
Cys Glu Val Ser Gly Val Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly
305                 310                 315                 320
Gly Leu Cys Val Gly Gly Ala Asp Pro Asp Ser Ala Tyr Ile Cys His
                 325                 330                 335
Cys Pro Pro Gly Phe Gln Gly Ser Asn Cys Glu Lys Arg Val Asp Arg
             340                 345                 350
Cys Ser Leu Gln Pro Cys Arg Asn Gly Gly Leu Cys Leu Asp Leu Gly
         355                 360                 365
His Ala Leu Arg Cys Arg Cys Arg Ala Gly Phe Ala Gly Pro Arg Cys
     370                 375                 380
```

```
Glu His Asp Leu Asp Asp Cys Ala Gly Arg Ala Cys Ala Asn Gly Gly
385             390             395             400
Thr Cys Val Glu Gly Gly Gly Ala His Arg Cys Ser Cys Ala Leu Gly
                405             410             415
Phe Gly Gly Arg Asp Cys Arg Glu Arg Ala Asp Pro Cys Ala Ala Arg
            420             425             430
Pro Cys Ala His Gly Gly Arg Cys Tyr Ala His Phe Ser Gly Leu Val
        435             440             445
Cys Ala Cys Ala Pro Gly Tyr Met Gly Ala Arg Cys Glu Phe Pro Val
    450             455             460
His Pro Asp Gly Ala Ser Ala Leu Pro Ala Ala Pro Pro Gly Leu Arg
465             470             475             480
Pro Gly Asp Pro Gln Arg Tyr Leu Leu Pro Pro Ala Leu Gly Leu Leu
            485             490             495
Val Ala Ala Gly Val Ala Gly Ala Ala Leu Leu Leu Val His Val Arg
        500             505             510
Arg Arg Gly His Ser Gln Asp Ala Gly Ser Arg Leu Leu Ala Gly Thr
        515             520             525
Pro Glu Pro Ser Val His Ala Leu Pro Asp Ala Leu Asn Asn Leu Arg
    530             535             540
Thr Gln Glu Gly Ser Gly Asp Gly Pro Ser Ser Ser Val Asp Trp Asn
545             550             555             560
Arg Pro Glu Asp Val Asp Pro Gln Gly Ile Tyr Val Ile Ser Ala Pro
            565             570             575
Ser Ile Tyr Ala Arg Glu Ala
            580
```

```
<210> 3
<211> 1307
<212> DNA
<213> Homo sapiens

<400> 3
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gccgtccccg ggacgatgcc ttcggccact tcacctgtgg ggagcgtggg gagaaagtgt   120
gcaaccctgg ctggaaaggg ccctactgca cagagcgtga gtctctggga aggcaccgct   180
ggctcactcg tccacgaaca cggaccacgc gcagggacgg ggcttcctga ccacgggggg   240
gcttgggact gtagagatgt tctggtgggg aaactgaggc ccagaggaca gaagtggatt   300
gctataagtc acagctcgtc agtggggggg ttggggtcaa cgcagacatt ttaacatccc   360
aggctgtgtt tatccactat cggaactgcc tttcttaatc agggaggatt ttagagacag   420
ggccaggggt caggaagtaa agccagtgct acccccaggg tgtgtgtatt agagagggag   480
aggaggaagg aagggaggaa cacagagaga gcttgtgtgt caggggcacc atttcaaccc   540
gagttcccag tgctggaaca gcatcacact gggaaacgtt ccattttctc tctggagctg   600
gtgtgcttga cctctctgga gcaaacgcct ttccggatac tccctgtgac acgcactgtc   660
tatgctggcc agagagcagg ctttcactcc tgtgggctgc tgaggccagg tctccaaggc   720
ctgtgtgggc gaggggtgca gcccccgtc tggcttgaat gctcaggcag caccttgtct   780
ggaaaagcaa tgtcttccca atagtgacag aggctctacc tgcctcttat taggtattga   840
tgtgtcaatg tcatggcagg caggtgacta gggcagggtt ggggccgtgc tggctcctgg   900
ttctggctca tggggacctc aggagccctc tctccagctg actgaggcct cgcctgcacg   960
cctggccgtc ccagcccatt ggtaccggat ttctctacag ctggggattg ggtaggtcct  1020
ggagctgccc agaaactcca gggaactgtc attctccttc cttggaactg acaaccttg   1080
gagagggggct ctgggaggcc cagaacctct ggcaggagct gggtagtgcc tggggttgag  1140
ggtgggtctt cccattcact gagtgccttg atgtccttgc tccttagctt cccaaattcc  1200
ctccggaact tactgagctc cttctaagct ttgccttggc ctgaactggt tctggggaaa  1260
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa   1307

<210> 4
<211> 81
<212> PRT
<213> Homo sapiens

<400> 4
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Gly Arg Thr Asp Leu Lys Tyr Ser Tyr Arg Phe Val Cys Asp Glu His
1               5                   10                  15
Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys Arg Pro Arg Asp Asp Ala
            20                  25                  30
Phe Gly His Phe Thr Cys Gly Glu Arg Gly Glu Lys Val Cys Asn Pro
        35                  40                  45
Gly Trp Lys Gly Pro Tyr Cys Thr Glu Arg Glu Ser Leu Gly Arg His
    50                  55                  60
Arg Trp Leu Thr Arg Pro Arg Thr Arg Thr Thr Arg Arg Asp Gly Ala
65                  70                  75                  80
Ser
```

<210> 5
<211> 585
<212> PRT
<213> Mus musculus

<220>
<221> VARIANT
<222> (1)...(585)
<223> Xaa = Any Amino Acid

<400> 5
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Met Val Ser Leu Gln Val Ser Pro Leu Ser Gln Thr Leu Ile Leu Ala
1               5                   10                  15
Phe Leu Leu Pro Gln Ala Leu Pro Ala Gly Val Phe Glu Leu Gln Ile
            20                  25                  30
His Ser Phe Gly Pro Gly Pro Gly Leu Gly Thr Pro Arg Ser Pro Cys
        35                  40                  45
Asn Ala Arg Gly Pro Cys Arg Leu Phe Phe Arg Val Cys Leu Lys Pro
    50                  55                  60
Gly Val Ser Gln Glu Ala Thr Glu Ser Leu Cys Ala Leu Gly Ala Ala
65                  70                  75                  80
Leu Ser Thr Ser Val Pro Val Tyr Thr Glu His Pro Gly Glu Ser Ala
            85                  90                  95
Ala Ala Leu Pro Leu Pro Asp Gly Leu Val Arg Val Pro Phe Arg Asp
            100                 105                 110
Ala Trp Pro Gly Thr Phe Ser Leu Val Ile Glu Thr Trp Arg Glu Gln
            115                 120                 125
Leu Gly Glu His Ala Gly Gly Pro Ala Trp Asn Leu Leu Ala Arg Val
        130                 135                 140
Val Gly Arg Arg Arg Leu Ala Ala Gly Gly Pro Trp Ala Arg Asp Val
145                 150                 155                 160
Gln Arg Thr Gly Thr Trp Glu Leu His Phe Ser Tyr Arg Ala Arg Cys
                165                 170                 175
```

```
Glu Pro Pro Ala Val Gly Ala Ala Cys Ala Arg Leu Cys Arg Ser Arg
            180             185             190
Ser Ala Pro Ser Arg Cys Gly Pro Gly Leu Arg Pro Cys Thr Pro Phe
        195             200             205
Pro Asp Glu Cys Glu Ala Pro Ser Val Cys Arg Pro Gly Cys Ser Pro
    210             215             220
Glu His Gly Tyr Cys Glu Glu Pro Asp Glu Cys Arg Cys Leu Glu Gly
225             230             235             240
Trp Thr Gly Pro Leu Cys Thr Val Pro Val Ser Thr Ser Ser Cys Leu
            245             250             255
Asn Ser Arg Val Pro Gly Pro Ala Ser Thr Gly Cys Leu Leu Pro Gly
        260             265             270
Pro Gly Pro Cys Asp Gly Asn Pro Cys Ala Asn Gly Gly Ser Cys Ser
    275             280             285
Glu Thr Ser Gly Ser Phe Glu Cys Ala Cys Pro Arg Gly Phe Tyr Gly
    290             295             300
Leu Arg Cys Glu Val Ser Gly Val Thr Cys Ala Asp Gly Pro Cys Phe
305             310             315             320
Asn Gly Gly Leu Cys Val Gly Gly Glu Asp Pro Asp Ser Xaa Tyr Val
            325             330             335
Cys His Cys Pro Pro Gly Phe Gln Gly Ser Asn Cys Glu Lys Arg Val
            340             345             350
Asp Arg Cys Ser Leu Gln Pro Cys Gln Asn Gly Gly Leu Cys Leu Asp
        355             360             365
Leu Gly His Ala Xaa Xaa Cys Arg Cys Arg Ala Gly Phe Ala Gly Pro
370             375             380
Arg Cys Glu His Asp Leu Asp Asp Cys Ala Gly Arg Ala Cys Ala Asn
385             390             395             400
Ala Gly Thr Cys Val Glu Gly Gly Gly Ser Arg Arg Cys Ser Cys Ala
            405             410             415
Leu Gly Phe Gly Gly Arg Asp Cys Arg Glu Arg Ala Asp Pro Cys Ala
            420             425             430
Ser Arg Pro Cys Ala His Gly Gly Arg Cys Tyr Ala His Phe Ser Gly
        435             440             445
Leu Val Cys Ala Cys Ala Pro Gly Tyr Met Gly Val Arg Cys Glu Phe
    450             455             460
Ala Val Arg Pro Asp Gly Ala Asp Ala Val Pro Ala Ala Pro Arg Gly
465             470             475             480
Leu Arg Gln Ala Asp Pro Gln Arg Phe Leu Leu Pro Pro Ala Leu Gly
            485             490             495
Leu Leu Val Ala Ala Gly Leu Ala Gly Ala Ala Leu Leu Val Ile His
            500             505             510
Val Arg Arg Arg Gly Pro Gly Gln Asp Thr Gly Thr Arg Leu Leu Ser
        515             520             525
Gly Thr Arg Glu Pro Ser Val His Thr Leu Pro Asp Ala Leu Asn Asn
    530             535             540
Leu Arg Leu Gln Asp Gly Ala Gly Asp Gly Pro Ser Ser Ser Ala Asp
545             550             555             560
Trp Asn His Pro Glu Asp Gly Asp Ser Arg Ser Ile Tyr Val Ile Pro
            565             570             575
Ala Pro Ser Ile Tyr Ala Arg Glu Ala
            580             585
```

<210> 6

<211> 723
<212> PRT
<213> Homo sapiens

<400> 6
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Met Gly Ser Arg Cys Ala Leu Ala Leu Ala Val Leu Ser Ala Leu Leu
 1               5                  10                  15
Cys Gln Val Trp Ser Ser Gly Val Phe Glu Leu Lys Leu Gln Glu Phe
            20                  25                  30
Val Asn Lys Lys Gly Leu Leu Gly Asn Pro Asn Cys Cys Arg Gly Gly
            35                  40                  45
Ala Gly Pro Pro Pro Cys Ala Cys Arg Thr Phe Phe Arg Val Cys Leu
        50                  55                  60
Lys His Tyr Gln Ala Ser Val Ser Pro Glu Pro Pro Cys Thr Tyr Gly
65                  70                  75                  80
Ser Ala Val Thr Pro Val Leu Gly Val Asp Ser Phe Ser Leu Pro Asp
                85                  90                  95
Gly Gly Gly Ala Asp Ser Ala Phe Ser Asn Pro Ile Arg Phe Pro Phe
            100                 105                 110
Gly Phe Thr Trp Pro Gly Thr Phe Ser Leu Ile Ile Glu Ala Leu His
        115                 120                 125
Thr Asp Ser Pro Asp Asp Leu Ala Thr Glu Asn Pro Glu Arg Leu Ile
        130                 135                 140
Ser Pro Leu Ala Thr Gln Arg His Leu Thr Val Gly Glu Glu Trp Ser
145                 150                 155                 160
Gln Asp Leu His Ser Ser Gly Arg Thr Asp Leu Lys Tyr Ser Tyr Arg
                165                 170                 175
Phe Val Cys Asp Glu His Tyr Tyr Gly Glu Gly Cys Ser Val Phe Cys
            180                 185                 190
Arg Pro Arg Asp Asp Ala Phe Gly His Phe Thr Cys Gly Glu Arg Gly
            195                 200                 205
Glu Lys Val Cys Asn Pro Gly Trp Lys Gly Pro Tyr Cys Thr Glu Pro
        210                 215                 220
Ile Cys Leu Pro Gly Cys Asp Glu Gln His Gly Phe Cys Asp Lys Pro
225                 230                 235                 240
Gly Glu Cys Lys Cys Arg Val Gly Trp Gln Gly Arg Tyr Cys Asp Glu
                245                 250                 255
Cys Ile Arg Tyr Pro Gly Cys Leu His Gly Thr Cys Gln Gln Pro Trp
            260                 265                 270
Gln Cys Asn Cys Gln Glu Gly Trp Gly Gly Leu Phe Cys Asn Gln Asp
            275                 280                 285
Leu Asn Tyr Cys Thr His His Lys Pro Cys Lys Asn Gly Ala Thr Cys
        290                 295                 300
Thr Asn Thr Gly Gln Gly Ser Tyr Thr Cys Ser Cys Arg Pro Gly Tyr
305                 310                 315                 320
Thr Gly Ala Thr Cys Glu Leu Gly Ile Asp Glu Cys Asp Pro Ser Pro
                325                 330                 335
Cys Lys Asn Gly Gly Ser Cys Thr Asp Leu Glu Asn Ser Tyr Ser Cys
            340                 345                 350
Thr Cys Pro Pro Gly Phe Tyr Gly Lys Ile Cys Glu Leu Ser Ala Met
            355                 360                 365
Thr Cys Ala Asp Gly Pro Cys Phe Asn Gly Gly Arg Cys Ser Asp Ser
        370                 375                 380
Pro Asp Gly Gly Tyr Ser Cys Arg Cys Pro Val Gly Tyr Ser Gly Phe
```

```
385                    390                    395                    400
Asn Cys Glu Lys Lys Ile Asp Tyr Cys Ser Ser Ser Pro Cys Ser Asn
                405                    410                    415
Gly Ala Lys Cys Val Asp Leu Gly Asp Ala Tyr Leu Cys Arg Cys Gln
            420                    425                    430
Ala Gly Phe Ser Gly Arg His Cys Asp Asp Asn Val Asp Asp Cys Ala
        435                    440                    445
Ser Ser Pro Cys Ala Asn Gly Gly Thr Cys Arg Asp Gly Val Asn Asp
        450                    455                    460
Phe Ser Cys Thr Cys Pro Pro Gly Tyr Thr Gly Arg Asn Cys Ser Ala
465                    470                    475                    480
Pro Val Ser Arg Cys Glu His Ala Pro Cys His Asn Gly Ala Thr Cys
                485                    490                    495
His Glu Arg Gly His Gly Tyr Val Cys Glu Cys Ala Arg Gly Tyr Gly
            500                    505                    510
Gly Pro Asn Cys Gln Phe Leu Leu Pro Glu Leu Pro Pro Gly Pro Ala
            515                    520                    525
Val Val Asp Leu Thr Glu Lys Leu Glu Gly Gln Gly Gly Pro Phe Pro
        530                    535                    540
Trp Val Ala Val Cys Ala Gly Val Ile Leu Val Leu Met Leu Leu Leu
545                    550                    555                    560
Gly Cys Ala Ala Val Val Val Cys Val Pro Leu Arg Leu Gln Lys His
            565                    570                    575
Arg Pro Pro Ala Asp Pro Cys Arg Gly Glu Thr Glu Thr Met Asn Asn
        580                    585                    590
Leu Ala Asn Cys Gln Arg Glu Lys Asp Ile Ser Val Ser Ile Ile Gly
        595                    600                    605
Ala Thr Gln Ile Lys Asn Thr Asn Lys Lys Ala Asp Phe His Gly Asp
    610                    615                    620
His Ser Ala Asp Lys Asn Gly Phe Lys Ala Arg Tyr Pro Ala Val Asp
625                    630                    635                    640
Tyr Asn Leu Val Gln Asp Leu Lys Gly Asp Asp Thr Ala Val Arg Asp
                645                    650                    655
Ala His Ser Lys Arg Asp Thr Lys Cys Gln Pro Gln Gly Ser Ser Gly
            660                    665                    670
Glu Glu Lys Gly Thr Pro Thr Thr Leu Arg Gly Gly Glu Ala Ser Glu
        675                    680                    685
Arg Lys Arg Pro Asp Ser Gly Cys Ser Thr Ser Lys Asp Thr Lys Tyr
        690                    695                    700
Gln Ser Val Tyr Val Ile Ser Glu Glu Lys Asp Glu Cys Val Ile Ala
705                    710                    715                    720
Thr Glu Val
```

<210> 7
<211> 685
<212> PRT
<213> Homo sapiens

<400> 7
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Met Ala Ala Ala Ser Arg Ser Ala Ser Gly Trp Ala Leu Leu Leu Leu
 1               5                    10                    15
Val Ala Leu Trp Gln Gln Arg Ala Ala Gly Ser Gly Val Phe Gln Leu
            20                    25                    30
```

```
Gln Leu Gln Glu Phe Ile Asn Glu Arg Gly Val Leu Ala Ser Gly Arg
        35              40              45
Pro Cys Glu Pro Gly Cys Arg Thr Phe Phe Arg Val Cys Leu Lys His
    50              55              60
Phe Gln Ala Val Val Ser Pro Gly Pro Cys Thr Phe Gly Thr Val Ser
65              70              75              80
Thr Pro Val Leu Gly Thr Asn Ser Phe Ala Val Arg Asp Asp Ser Ser
                85              90              95
Gly Gly Gly Arg Asn Pro Leu Gln Leu Pro Phe Asn Phe Thr Trp Pro
            100             105             110
Gly Thr Phe Ser Leu Ile Ile Glu Ala Trp His Ala Pro Gly Asp Asp
        115             120             125
Leu Arg Pro Glu Ala Leu Pro Pro Asp Ala Leu Ile Ser Lys Ile Ala
    130             135                 140
Ile Gln Gly Ser Leu Ala Val Gly Gln Asn Trp Leu Leu Asp Glu Gln
145             150             155                 160
Thr Ser Thr Leu Thr Arg Leu Arg Tyr Ser Tyr Arg Val Ile Cys Ser
                165             170             175
Asp Asn Tyr Tyr Gly Asp Asn Cys Ser Arg Leu Cys Lys Lys Arg Asn
            180             185             190
Asp His Phe Gly His Tyr Val Cys Gln Pro Asp Gly Asn Leu Ser Cys
        195             200             205
Leu Pro Gly Trp Thr Gly Glu Tyr Cys Gln Gln Pro Ile Cys Leu Ser
    210             215             220
Gly Cys His Glu Gln Asn Gly Tyr Cys Ser Lys Pro Ala Glu Cys Leu
225             230             235                 240
Cys Arg Pro Gly Trp Gln Gly Arg Leu Cys Asn Glu Cys Ile Pro His
            245             250             255
Asn Gly Cys Arg His Gly Thr Cys Ser Thr Pro Trp Gln Cys Thr Cys
            260             265             270
Asp Glu Gly Trp Gly Gly Leu Phe Cys Asp Gln Asp Leu Asn Tyr Cys
        275             280             285
Thr His His Ser Pro Cys Lys Asn Gly Ala Thr Cys Ser Asn Ser Gly
    290             295             300
Gln Arg Ser Tyr Thr Cys Thr Cys Arg Pro Gly Tyr Thr Gly Val Asp
305             310             315                 320
Cys Glu Leu Glu Leu Ser Glu Cys Asp Ser Asn Pro Cys Arg Asn Gly
            325             330             335
Gly Ser Cys Lys Asp Gln Glu Asp Gly Tyr His Cys Leu Cys Pro Pro
        340             345             350
Gly Tyr Tyr Gly Leu His Cys Glu His Ser Thr Leu Ser Cys Ala Asp
    355             360             365
Ser Pro Cys Phe Asn Gly Gly Ser Cys Arg Glu Arg Asn Gln Gly Ala
    370             375             380
Asn Tyr Ala Cys Glu Cys Pro Pro Asn Phe Thr Gly Ser Asn Cys Glu
385             390             395             400
Lys Lys Val Asp Arg Cys Thr Ser Asn Pro Cys Ala Asn Gly Gly Gln
            405             410             415
Cys Leu Asn Arg Gly Pro Ser Arg Met Cys Arg Cys Arg Pro Gly Phe
        420             425             430
Thr Gly Thr Tyr Cys Glu Leu His Val Ser Asp Cys Ala Arg Asn Pro
    435             440             445
Cys Ala His Gly Gly Thr Cys His Asp Leu Glu Asn Gly Leu Met Cys
    450             455             460
```

```
Thr Cys Pro Ala Gly Phe Ser Gly Arg Arg Cys Glu Val Arg Thr Ser
465             470             475             480
Ile Asp Ala Cys Ala Ser Ser Pro Cys Phe Asn Arg Ala Thr Cys Tyr
            485             490             495
Thr Asp Leu Ser Thr Asp Thr Phe Val Cys Asn Cys Pro Tyr Gly Phe
            500             505             510
Val Gly Ser Arg Cys Glu Phe Pro Val Gly Leu Pro Pro Ser Phe Pro
            515             520             525
Trp Val Ala Val Ser Leu Gly Val Gly Leu Ala Val Leu Leu Val Leu
            530             535             540
Leu Gly Met Val Ala Val Ala Val Arg Gln Leu Arg Leu Arg Arg Pro
545             550             555             560
Asp Asp Gly Ser Arg Glu Ala Met Asn Asn Leu Ser Asp Phe Gln Lys
            565             570             575
Asp Asn Leu Ile Pro Ala Ala Gln Leu Lys Asn Thr Asn Gln Lys Lys
            580             585             590
Glu Leu Glu Val Asp Cys Gly Leu Asp Lys Ser Asn Cys Gly Lys Gln
            595             600             605
Gln Asn His Thr Leu Asp Tyr Asn Leu Ala Pro Gly Pro Leu Gly Arg
            610             615             620
Gly Thr Met Pro Gly Lys Phe Pro His Ser Asp Lys Ser Leu Gly Glu
625             630             635             640
Lys Ala Pro Leu Arg Leu His Ser Glu Lys Pro Glu Cys Arg Ile Ser
            645             650             655
Ala Met Cys Ser Pro Arg Asp Ser Met Tyr Gln Ser Val Cys Leu Ile
            660             665             670
Ser Glu Glu Arg Asn Glu Cys Val Ile Ala Thr Glu Val
            675             680             685
```

```
<210> 8
<211> 1758
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(1758)
<223> n = A,T,C or G

<400> 8
atggtctctc tgcaggtgtc tccgctttcc cagacgctga tcctggcttt tcttcttcct    60
caggcactgc cagctggtgt cttcgagcta caaattcatt ctttcgggcc aggcccaggc   120
ctcgggaccc cacgctcccc ctgcaacgcc cgaggccctt gccgcctctt cttcagggtc   180
tgcctgaagc ccggagtctc ccaggaggcc accgagtccc tgtgcgccct gggngcagca   240
ctgagcacga gcgtcccggt ctatacggag caccccggag agtcagcggc tgccctgccg   300
ctgcctgatg gcctcgtacg tgtgcccttc cgcgatgctt ggccgggcac cttctccctc   360
gtcattgaaa cctggagaga gcagctggga gagcatgctg agggcccgc ctggaacctg    420
ctagcacgtg tggtcggccg tagacgcctg gcggctgggg gcccgtgggc cgcgatgtg    480
cagcgcacag gcacatggga gttgcacttc tcctaccgcg cgcggtgcga gccgcccgcc   540
gtcggggccg cctgcgcgcg cctgtgccgc tcacgcagtg ccccctcgcg gtgtggcccg   600
ggactgcgac cctgcacgcc attcccagac gagtgcgaag ccccgtctgt gtgtcgacca   660
ggctgcagcc ccgagcacgg ctactgtgaa gagcctgatg aatgccgttg cctggagggc   720
tggactggac ccctctgcac ggtccctgtc tccaccagta gctgcctgaa ctccagggtt   780
cctggtcctg ccagcactgg atgccttta cctgggcctg gaccttgtga tgggaaccca    840
```

```
tgtgccaatg ggggcagctg tagtgaaacc tctggctcct ttgaatgtgc ctgtccccgg      900
ggattctacg ggcttcgatg tgaggtgagc ggggtcacgt gcgcagatgg accctgcttc      960
aatggcggct tgtgtgttgg cggtgaagat cctgactctn cctatgtctg tcattgccca     1020
cctggtttcc aaggctctaa ctgtgagaag agggtggacc gctgtagcct gcagccatgt     1080
cagaatggcg gcctctgcct ggacctgggc cacgcgttnn cctgccgctg tcgcgcggga     1140
ttcgccgggc cgcgctgcga gcacgacctg gacgactgcg ccggccgcgc ctgtgccaac     1200
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